

**Abstract:**

**The studying of relation between elevation the eardiac troponin I and Left ventricular mass index in hemodialysis patient**

***Background & objectives:***

Patient with end stage renal disease have a high risk of death which is due mainly to cardiovascular events. we investigated the prognostic value of troponine I and its relationship with left ventricular mass in hemodialgosis patient. Elevated serum cardiac troponin T (CTnT) levels are frequently observed in chronic dialysis patients and have been shown to be associated with increase morbidity and mortality. The aim of this study was to determine whether CTnI wich is less frequently elevated, has similar clinical significance.

***Method and material:***

in fifty nine hemodialysis patients the level of troponin L (CTnI) with ELISA examined. LVH, Lvmass, EF systolic disfunction and diastolic disfunction were estimated By Echocardiography and Body surface area was estimated By soft ware than the aim of BSA and LV mass, LV mass index was obtin. And the data with software (SPSS 10.0) Analysis.

***Results:***

The average of troponin in male gender  $0.82 \pm 0.65$  and in female was  $0.83 \pm 0.62$  (min 0.1 – max2.7). there weren't no relation ship between LV mas index ( $PV=0.8$ ) and LV mass ( $PV=0.11$ ) with troponin I in two gender.

There were no significant relation ship between LV mass index and gender and duration of dialysis ( $PV=0.91$ ) and no relation ship between troponin I and ender, but LV mass was relation ship with age ( $PV=0.02$ ) and LV mass index was relation ship with

***discssion:***

Elevated serum troponin I is associated with heart problem low EF and diastolic sisfunction but it is not associated with LV it and LV mass index.

***Keywords:***

Hemodialysis, LVH, LV mass index, CTnI, Ardabil,